

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/740,013	SERGOYAN ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Walter Benson	2858	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed, 5/02/05.
2. ☒ The allowed claim(s) is/are 1-29.
3. ☒ The drawings filed on 02 May 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance             |
|   | 9. <input type="checkbox"/> Other _____   |

Walter Benson 571-272-2227

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Scott T. Gray, Reg. No. 48,891 on 6/30/05.

3. The application [claims, 5/02/05] has been amended as follows:

a. In claim 1, line 10, inserted --, to thereby determine a measured thickness of the non-conductive coating on the semi-conductor substrate. – after “plates”

### *Allowable Subject Matter*

4. Claims 1-29 are allowed over the prior art.

The prior art of record fails to teach in combination as claimed a system for measuring a thickness of a non-conductive coating on a semi-conductive substrate. The system including a first conducting plate adapted to be placed in contact with a non-conductive coating on a semi-conductive substrate at a first location and a second conducting plate adapted to be placed in contact with the non-conductive coating at a second location. The

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system measures a thickness of a non-conductive coating on a semi-conductive substrate.

The system includes a capacitance meter electrically connected to the first and second conducting plates, where the capacitance meter is adapted to measure a capacitance value of the non-conductive coating in combination with the semi-conductive substrate between the first and second conducting plates, to thereby determine a measured thickness of the non-conductive coating on the semiconductor substrate. A change in capacitance from a known capacitance of a semi-conductive component without the non-conductive material and measured capacitance with the non-conductive component is directly proportional to non-conductive coating thickness.

#### **Prior Art Made of Record**

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

A. Koch (US Patent No. 5,293,132) discloses a method and apparatus for measuring thickness of a non-conductive coating on a ferromagnetic and non-ferromagnetic substrates;

B. Baer (US Patent No. 5,093,626) discloses a device for measuring a conductive coating on a non-conductive substrate.

The closest prior art fails to anticipate or render Applicant's limitation above obvious.


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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter Benson whose telephone number is (571) 272-2227. The examiner can normally be reached on Mon to Fri 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Walter Benson  
Patent Examiner

July 6, 2005



REPLACEMENT SHEET  
MEASUREMENT OF A COATING ON A COMPOSITE USING CAPACITANCE

Inventors: Sergoyan et al.  
Serial No. 10/740,013 - Filed 12/18/2003  
Atty. Ref.: 7784-000675

1/1

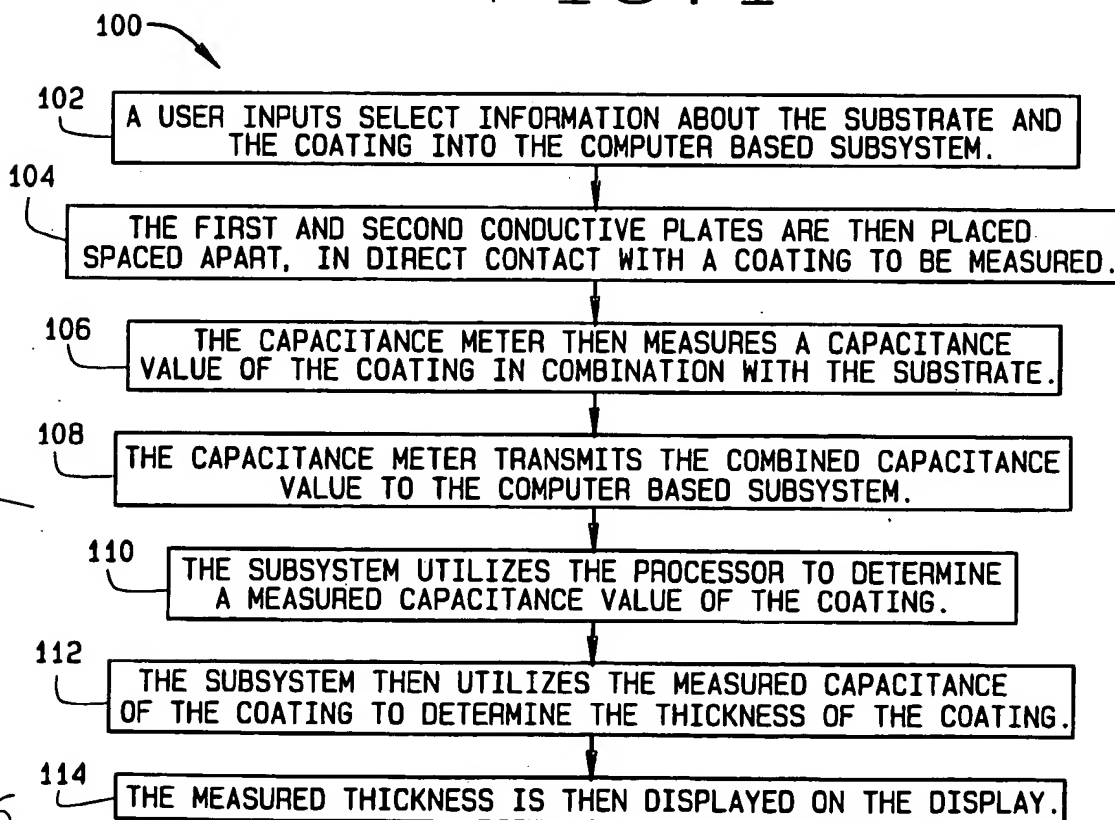
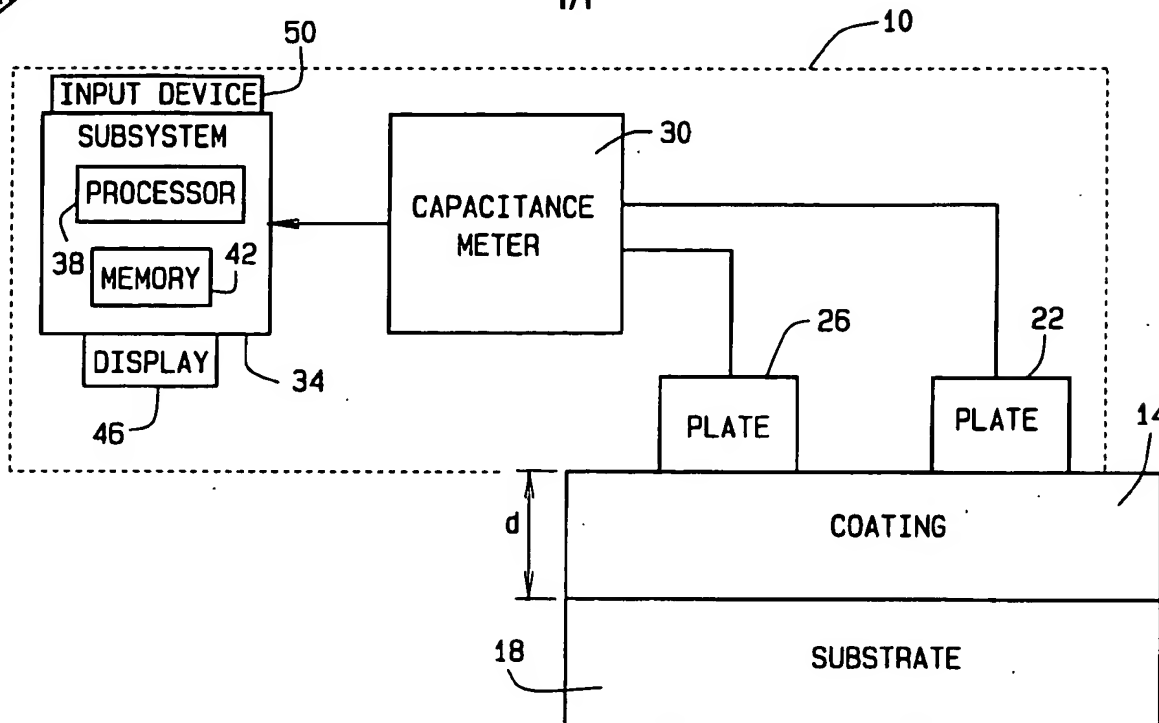


FIG. 2

2 pprared  
for  
entry  
W3 on row  
7/06/05